

**POWER OF ATTORNEY & DECLARATION FOR PATENT APPLICATION**

  X   Original           Supplemental           Substitute           PCT

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below), or an original, first, and joint inventor (if multiple names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SINGLE CRYSTAL INVESTMENT CAST COMPONENTS**  
**AND METHODS OF MAKING SAME**

the specification of which (check one):

  X   is attached hereto; OR

       was filed on \_\_\_\_\_ as U.S. Patent Application No. or PCT International Patent Application No. \_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable). (Surcharge required under 37 CFR §1.16(e).)

I hereby state that I have reviewed and understand the contents of the above-referenced specification, including the claims, as amended by any amendment specifically referred to above.

I hereby acknowledge the duty to disclose information which is material to the patentability of this invention in accordance with 37 CFR §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or (f) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application(s) which designated at least one country other than the United States of America, listed below, and have also identified, by checking the appropriate box below, any foreign application(s) for patent or inventor's certificate, or any PCT international application(s) having a filing date before that of the application on which priority is claimed.

Prior Foreign Applications			Priority Claimed		Copy Attached	
Application No.	Country	Foreign Filing Date (mm/dd/yyyy)	YES	NO	YES	NO

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below and claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which

is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application No.	Filing Date	Status (Mark Appropriate Column Below)		
		Patented	Pending	Abandoned

As a named inventor, I hereby revoke all prior powers and appoint the following attorney(s) and or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

COMPANY NAME: Pratt & Whitney, a United Technologies Company.

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Ramsaran Maharajh	48,753
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All other attorneys/agents practicing at Customer Number 30188.	---

FIRM NAME: N/A.

I hereby acknowledge that the above-listed attorneys, agents and/or their firm, represent my employer (if I am an employee and this application has been or will be assigned to my employer) or the entity with which I have contracted (if I am an independent contractor and this application has been or will be assigned to such entity) and in such cases do not represent me individually. I further acknowledge that I have not established, nor will I seek to establish, any personal attorney/client relationship with the above-listed attorneys, agents and/or their firm in connection with this application and understand that, should I require legal representation, I will obtain such at my expense other than through the above-listed attorneys, agents and/or their firm.

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**EH-11132**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

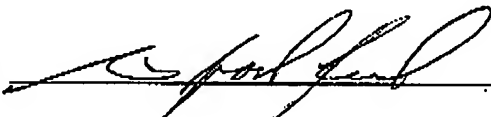
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**Full Name of Sole/First Inventor: STEVEN JOEL BULLIED**

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**Inventor's Signature:**  **Date:** 3/22/04

**EH-11132**

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Full Name of Second Inventor: **JOHN JOSEPH MARCIN, JR.**

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Inventor's Signature: John J. Marcin Jr. Date: 3/22/04

EH-11132

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

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Full Name of Third Inventor: **ROBERT CHARLES RENAUD**

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Inventor's Signature: Robert Charles Renaud Date: 3/22/04

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

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Full Name of Fourth Inventor: **ROY ALAN GARRISON**

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Inventor's Signature: Roy Alan Garrison Date: 3/22/04

**EH-11132**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

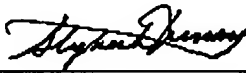
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Full Name of Fifth Inventor: **STEPHEN DOUGLAS MURRAY**

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Inventor's Signature:  Date: 3/24/04